

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-10 (Cancelled)

11. (Previously Presented) An apparatus for controlling an operation of a motor, comprising:

a revolution section detect unit configured to calculate an operational frequency of the motor based on phase voltage and current values applied to the motor and configured to output a section detect signal by detecting an operational section of the motor in accordance with the calculated operational frequency;

a calculation unit configured to receive the phase voltage and current values in accordance with the section detect signal and configured to calculate a phase resistance value;

a speed/position calculation unit configured to calculate a rotor position of the motor by detecting the calculated phase resistance value and the phase voltage and current values and also configured to calculate a speed of the motor; and

a voltage command generator configured to generate a voltage command to and apply a voltage to the motor based on the rotor position and the speed of the motor.

12. (Original) The apparatus of claim 11, wherein the operational section is a middle section between forward and backward revolution sections of the motor.

13. (Original) The apparatus of claim 11, wherein the calculation unit calculates the phase resistance value at a middle section between forward and backward revolution sections of the motor.

14. (Original) The apparatus of claim 11, wherein the motor is a sensorless brushless direct current motor.

15. (Original) The apparatus of claim 11, wherein the motor is used for a washing machine.

16. (Original) The apparatus of claim 11, wherein the voltage applied to the motor is proportional to a size of the phase resistance value.

17. (Previously Presented) The apparatus of claim 11, wherein the calculation unit calculates the phase resistance value at predetermined intervals and calculates an average value of the calculated phase resistance value.

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18. (Original) The apparatus of claim 11, wherein the calculation unit calculates the phase resistance value by dividing the phase voltage by the phase current when an operational frequency of the motor approaches '0'.

19-21 (Cancelled)